CROWN DITCH
CUNETA DE CORONA
3m to 5m
TYP.
TIP.
EXISTING GRADE
NIVEL EXISTENTE
TOPSOIL STRIPPING
DESCAPOTE
NOTE 6
NOTA 6
BENCH DITCH
CUNETA DE ESCALONES
3000 TYP. *TIP.*
4%
5000 TYP. *TIP.*
CUT
CORTE
ROAD DITCH
CUNETA DE VIA
COAST ACCESS ROAD
VIA DE ACCESO DE LA COSTA
ROAD WIDTH 10000
ANCHO VIA 10000
ROAD ELEVATION
ELEVACION DE LA VIA
3% 3%
STEEL BEAM GUARD RAIL ABOVE ALL EMBANKMENTS OVER 3.0m HIGH (TYP.) NOTE 6.
DEFENSA METALICA ARRIBA DE TODOS LOS TERRAPLENES POR ENCIMA DE 3.0m DE ALTURA (TIP.) NOTA 6.
DETAIL 1
DETALLE 1
150 GRANULAR - TYPE '3A'
150 DE GRANULAR - TIPO '3A'
450 GRANULAR - TYPE '3C'
450 DE GRANULAR - TIPO '3C'
NON WOVEN GEOTEXTILE
GEOTEXTIL NO TEJIDO
1.75 TYP. *TIP.* 1
TYPE '1'
TIPO "1"
FOUNDATION PREPARATION SEE DETAIL 5 DWG. 504832-0000-41D1-0016
PREPARACION DE LA FUNDACION VER DETALLE 5 DIBUJO 504832-0000-41D1-0016
2000 TYP *TIP.*
TYPE '9'
10000 MAX. TYP. *MAX. TIP.*
1000 TYP. *TIP.*
TIPO "9"
1.0m WIDE FINGER DRAIN AT 10m INTERVAL-TYPE '9'
DRENAJE DE 1.0m DE ANCHO A INTERVALOS DE 10.0m - TIPO "9"
1.5m WIDE FINGER DRAIN AT 10m INTERVAL - TYPE '9'
DRENAJE DE 1.5m DE ANCHO A INTERVALOS DE 10.0m - TIPO "9"
MINE WASTE ROCK < 1000
RESIDUO DE ROCA DE LA MINA <1000
1500 MIN

ROAD CUT/FILL SECTION
SECCION CORTE Y RELLENO EN VIA

EROSION CONTROL
CONTROL DE LA EROSION

1. FOR SLOPES STEEPER THAN 1:1 USE TURF REINFORCEMENT MAT (TRM) AND HYDRO SEEDING TO PROTECT SLOPES. APPLY HYDROSEEDING AFTER PLACEMENT OF TRM. TRM INSTALLATION SHALL BE IN ACCORDANCE WITH BMP 1 SHOWN ON DWG. 504832-0000-4ED0-0001 OR AS SPECIFICED BY THE SUPPLIER.
   PARA TALUDES MAS INCLINADOS QUE 1:1 USAR MANTOS REFORADOS (TRM) E HIDROSEMBRAR PARA PROTEGER LOS TALUDES. APLICAR LA HIDROSIEMBRA SOBRE LOS MANTOS TRM. LA INSTALACION DE LOS MANTOS TRM DEBEN SER CONFORNE AL BMP 1 COMO SE MUESTRA EN EL DIBUJO 405832-0000-4ED0-0001, O SEGUN LO ESPECIFIQUE EL PROVEEDOR. LA HIDROSIEMBRA SERA DE ACUERDO AL BMP 27.
2. FOR SLOPES 1:1 AND FLATTER HYDRO IN ACCORDANCE WITH BMP 27. PLACE COCONUT MAT ON TOP OF HYDRO SEEDED AREAS AS SHOWN ON DWG 504832-0000-4ED0-0001 OR AS SPECIFIED BY SUPPLIER.
   PARA TALUDES 1:1 Y MENOS INCLINADOS, HIDROSEMBRAR CONFORME AL BMP 27. COLOCAR LOS MANTOS DE FIBRA DE COCO SOBRE LA HIDROSIEMBRA COMO SE MUESTRA EN EL DIBUJO 504832-0000-4ED0-0001, O SEGUN LO ESPECIFIQUE EL PROVEEDOR.

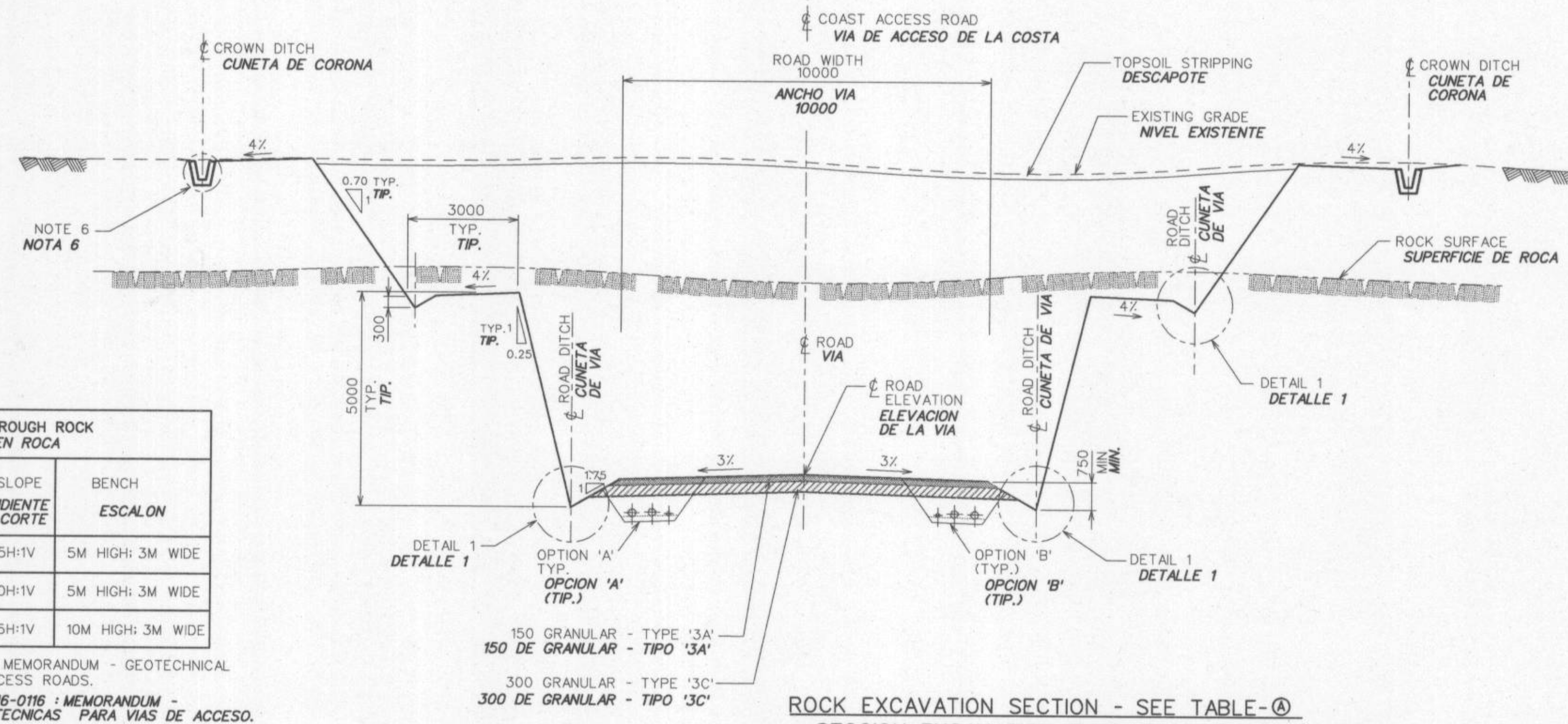
NOTES:
NOTAS:

1. FOR COAST ACCESS ROAD OVERALL LAYOUT AND GENERAL NOTES, REFER TO DWG. No. 504832-3110-41-D1-0003.
   PARA DISTRIBUCION GENERAL DE LA VIA DE ACCESO DE LA COSTA Y NOTAS GENERALES, REFERIRSE AL DIBUJO No. 504832-3110-41D1-0003.
2. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
   TODAS LAS DIMENSIONES MOSTRADAS ESTAN EN MILIMETROS A MENOS QUE SE INDIQUE LO CONTRARIO.
3. FOR UTILITY PIPELINES REFER TO DRAWINGS PREPARED BY TECHINT.
   PARA TUBERIAS DE SERVICIOS PUBLICOS REFERIRSE A LOS DIBUJOS PREPARADOS POR TECHINT.
4. SURFACE RUNOFF TO BE INTERCEPTED ABOVE CUT OR ON UPPER BENCH AND DIRECTED AWAY FROM CUT SLOPES. PROTECT DITCH WITH 150 RIPRAP OR APPROVED EQUIVALENT.
   ESCORRENTIA SUPERFICIAL A SER INTERCEPTADA ENCIMA DEL CORTE O EN EL ESCALON SUPERIOR Y DIRIGIDA FUERA DE LAS PENDIENTES DE CORTE. PROTEJER CUNETAS CON ZAMPEADO 150 O EQUIVALENTE APROBADO.
5. FOR CULVERT INLET AND OUTLET TYPE, SECTIONS AND DETAILS, REFER TO DRAWINGS: 504832-0000-41D1-0018, 504832-0000-41D1-0019 AND 504832-0000-41D1-0020.
   PARA SECCIONES Y DETALLES TIPICOS DE ENTRADA Y SALIDA DE ALCANTARILLAS, REFERIRSE A LOS DIBUJOS: 504832-0000 41D1-0018, 504832-000041D1-0019 Y 504832-0000-41D1-0020.
6. FOR BENCH AND CROWN DITCHES, BOLLARD, GUARD RAIL, AND OTHER TYPICAL DETAILS, SEE DWG. 504832-0000-41D1-0016.
   PARA TERRAZA EN ESCALONES Y CUNETAS DE CORONACION, BOLARDOS, DEFENSA METALICA Y OTROS DETALLES TIPICOS, VER DIBUJO 504832-0000-41D1-0016.
7. REFER TO THE FOLLOWING TECHNICAL SPECIFICATIONS:
   REFERIRSE A LAS SIGUIENTES ESPECIFICACIONES TECNICAS
   504832-0000-41EF-0002 : EXCAVATION AND FILL - GENERAL.
   504832-0000-41EF-0002 : EXCAVACIONES Y LLENOS - GENERALIDADES.
   504832-0000-41EF-0004 : EXCAVATION AND FILL - SITEWORK.
   504832-0000-41EF-0004 : EXCAVACIONES Y LLENOS - SITIO DE OBRAS.
   504832-0000-41EF-0008 : GEOTEXILE.
   504832-0000-41EF-0008 : GEOTEXTIL.
   504832-0000-41EF-0010 : INSTALLATION HDPE LINER.
   504832-0000-41EF-0010 : INSTALACION MEMBRANA HDPE.
   504832-0000-4GCA-0116: MEMORANDUM - GEOTECHNICAL CONSIDERATIONS FOR ACCESS ROADS.
   504832-0000-4GCA-0116-0116 : MEMORANDUM - CONSIDERACIONES GEOTECNICAS PARA VIAS DE ACCESO.

LEGEND:
LEYENDA:

ACCORDING TO DOCUMENT No. 504832-0000-41EF-0002 :
DE ACUERDO A DOCUMENTO No. 504832-0000-41EF-0002 :

TYPE '1'	-	TYPE '1' FILL - SELECT NATIVE EARTH *RELLENO TIPO "1" - MATERIAL SELLECIONADO DEL SITIO*
TYPE '9'	-	TYPE '9' FILL - QUARRY ROCK (600 MINUS) *RELLENO TIPO "9" - ROCA DE CANTERA (A MENOS 600)*
TYPE '3A'	-	GRANULAR 'A' FILL *GRANULAR "A" - RELLENO*
TYPE '3C'	-	GRANULAR 'C' FILL *GRANULAR "C" - RELLENO*

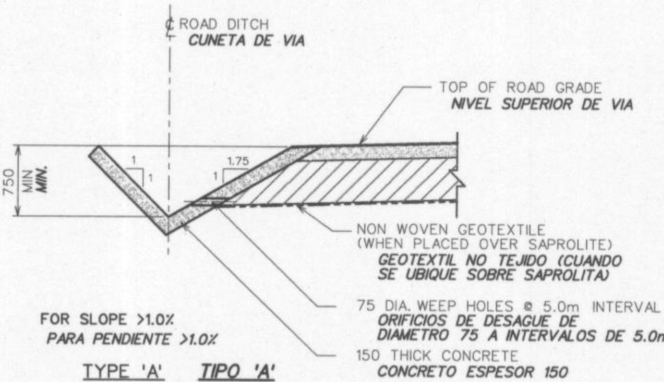


ROCK EXCAVATION SECTION - SEE TABLE-Ⓐ
SECCION EXCAVACION EN ROCA - VER TABLA -Ⓐ

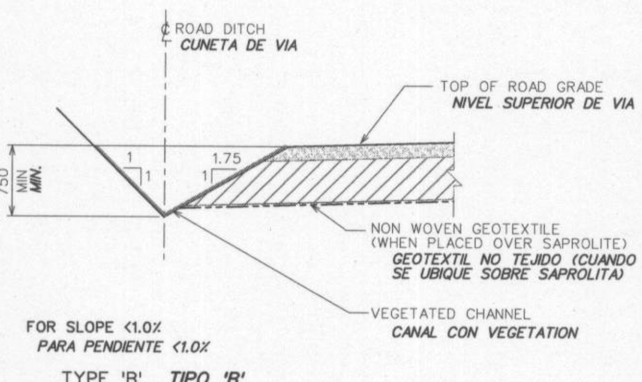
TABLE - Ⓐ
TABLA - Ⓐ

EXCAVATION THROUGH ROCK *EXCAVACION EN ROCA*		
CUT DEPTH IN BEDROCK *PROFUNDIDAD DE CORTE EN ROCA*	CUT SLOPE *PENDIENTE DE CORTE*	BENCH *ESCALON*
< 2.0 M	0.75H:1V	5M HIGH; 3M WIDE
2.0 M - 5.0 M	0.50H:1V	5M HIGH; 3M WIDE
< 5.0 M	0.25H:1V	10M HIGH; 3M WIDE

504832-0000-4GCA-0116: MEMORANDUM - GEOTECHNICAL CONSIDERATIONS FOR ACCESS ROADS.
504832-0000-4GCA-0116-0116 : MEMORANDUM - CONSIDERACIONES GEOTECNICAS PARA VIAS DE ACCESO.



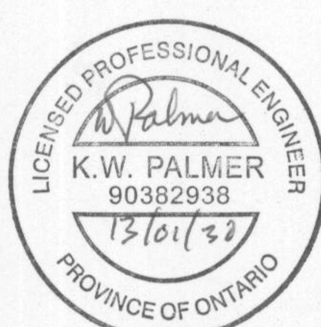
TYPE 'A' *TIPO 'A'*



TYPE 'B' *TIPO 'B'*

DETAIL 1
ROAD DITCH IN SAPROLITE
N.T.S.

DETALLE 1
CUNETA DE VIA EN SAPROLITA
NO A ESCALA



REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE

DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA
PREPARACION DEL SITIO Y TRABAJOS CIVILES
VIA DE ACCESO DE LA COSTA
DEL PUERTO HACIA LA PLANTA
SECCIONES Y DETALLES TIPICOS

RELEASED FOR CONSTRUCTION

Minera Panamá

0 2000 4000 6000
2000
SCALE IN MILIMETRES
ESCALA EN MILIMETROS

DWG. NO.	REFERENCES
3110-41D1-0003	SITE PREP. AND CIVIL WORKS-COAST ACCESS ROAD PORT TO PLANT-OVERALL LAYOUT-PLAN
0000-41D1-0020	GENERAL - ACCESS ROAD - ROAD CULVERT - TYPICAL SECTIONS AND DETAILS - SHEET 3.
0000-41D1-0019	GENERAL - ACCESS ROAD - ROAD CULVERT - TYPICAL SECTIONS AND DETAILS - SHEET 2.
0000-41D1-0018	GENERAL - ACCESS ROAD - ROAD CULVERT - TYPICAL SECTIONS AND DETAILS - SHEET 1.
0000-41D1-0016	GENERAL - SITE FACILITIES - MISCELLANEOUS TYPICAL SECTIONS AND DETAILS.
0000-41D1-0004	GENERAL - CLEARING AND GRUBBING TYPICAL SECTIONS AND DETAILS

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
02	13/01/28	RELEASED FOR CONSTRUCTION	MB	WP	WP				
01	12/09/27	RELEASED FOR CLIENT REVIEW	MPJ	WP	WP	TP			
00	12/06/18	RELEASED FOR PERMIT	MB	WP	WP	BM	MOV		

		NAME (PRINT)	INIT.	DATE
JVP	DESIGNED	J.C. ZAPATA	JCZ	11/01/28
	DRAWN	M. BARCO / MPJ	MB	11/02/11
	CHECKED	W. PALMER	WP	13/01/30
	APPROVED LEAD ENG.	W. PALMER	WP	13/01/30
	APPROVED ENG. MAN.	T. PREISIG	TP	13/1/30
	APPROVED AREA MAN.			
CLIENT	APPROVED AREA LEAD.			
	APPROVED ENG. MAN.			

SCALE 1 : 100

CLIENT
CLIENT DWG. NO.
JVP Joint Venture Panama Inc.
ESTE PLANO ES PROPIEDAD DE JOINT VENTURE PANAMA (JVP), SU USO Y REPRODUCCION ESTAN SUJETOS A LOS TERMINOS DEL CONTRATO BAJO EL CUAL FUE PREPARADO. PROHIBIDA SU REPRODUCCION A MENOS QUE SEA EXPRESAMENTE INDICADO.
THIS DRAWING IS THE PROPERTY OF JOINT VENTURE PANAMA (JVP), AND THE USE AND COPYING THEREOF IS SUBJECT TO THE TERMS OF THE AGREEMENT UNDER WHICH IT WAS PREPARED. THIS DRAWING MAY NOT BE COPIED EXCEPT AS EXPRESSLY PROVIDED THEREIN.
PROFESSIONAL ENGINEER | NAME | NO.

TITLE
MINA DE COBRE PANAMA PROJECT
SITE PREPARATIONS AND CIVIL WORKS
COAST ACCESS ROAD
PORT TO PLANT
TYPICAL SECTIONS AND DETAILS

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	3110	41	D1	0022	02

Format 'A0' Sheet Size

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EROSION CONTROL
CONTROL DE LA EROSION

1. FOR SLOPES STEEPER THAN 1:1 USE TURF REINFORCEMENT MAT (TRM) AND HYDRO SEEDING TO PROTECT SLOPES. APPLY HYDROSEEDING AFTER PLACEMENT OF TRM. TRM INSTALLATION SHALL BE IN ACCORDANCE WITH BMP 1 SHOWN ON DWG. 504832-0000-4ED0-0001 OR AS SPECIFICED BY THE SUPPLIER.
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NOTES:
NOTAS:

1. FOR COAST ACCESS ROAD OVERALL LAYOUT AND GENERAL NOTES, REFER TO DWG. No. 504832-3110-41-D1-0003.
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3. FOR UTILITY PIPELINES REFER TO DRAWINGS PREPARED BY TECHINT.
   PARA TUBERIAS DE SERVICIOS PUBLICOS REFERIRSE A LOS DIBUJOS PREPARADOS POR TECHINT.
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   PARA SECCIONES Y DETALLES TIPICOS DE ENTRADA Y SALIDA DE ALCANTARILLAS, REFERIRSE A LOS DIBUJOS: 504832-0000 41D1-0018, 504832-00004 1D1-0019 Y 504832-0000-41D1-0020.
6. FOR BENCH AND CROWN DITCHES, BOLLARD, GUARD RAIL, AND OTHER TYPICAL DETAILS, SEE DWG. 504832-0000-41D1-0016.
   PARA TERRAZA EN ESCALONES Y CUNETAS DE CORONACION, BOLARDOS, DEFENSA METALICA Y OTROS DETALLES TIPICOS, VER DIBUJO 504832-0000-41D1-0016.
7. REFER TO THE FOLLOWING TECHNICAL SPECIFICATIONS:
   REFERIRSE A LAS SIGUIENTES ESPECIFICACIONES TECNICAS

   504832-0000-41EF-0002 : EXCAVATION AND FILL - GENERAL.
   504832-0000-41EF-0002 : EXCAVACIONES Y LLENOS - GENERALIDADES.

   504832-0000-41EF-0004 : EXCAVATION AND FILL - SITEWORK.
   504832-0000-41EF-0004 : EXCAVACIONES Y LLENOS - SITIO DE OBRAS.

   504832-0000-41EF-0008 : GEOTEXILE.
   504832-0000-41EF-0008 : GEOTEXTIL.

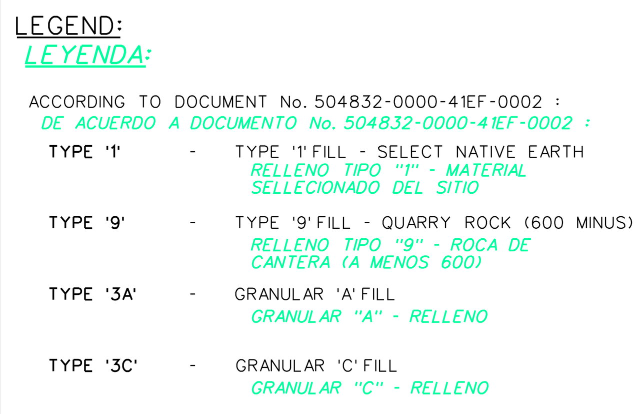
   504832-0000-41EF-0010 : INSTALLATION HDPE LINER.
   504832-0000-41EF-0010 : INSTALACION MEMBRANA HDPE.

   504832-0000-4GCA-0116: MEMORANDUM - GEOTECHNICAL CONSIDERATIONS FOR ACCESS ROADS.
   504832-0000-4GCA-0116-0116 : MEMORANDUM - CONSIDERACIONES GEOTECNICAS PARA VIAS DE ACCESO.

LEGEND:
LEYENDA:

ACCORDING TO DOCUMENT No. 504832-0000-41EF-0002 :
DE ACUERDO A DOCUMENTO No. 504832-0000-41EF-0002 :

TYPE '1'	-	TYPE '1' FILL - SELECT NATIVE EARTH *RELLENO TIPO "1" - MATERIAL SELLECIONADO DEL SITIO*
TYPE '9'	-	TYPE '9' FILL - QUARRY ROCK (600 MINUS) *RELLENO TIPO "9" - ROCA DE CANTERA (A MENOS 600)*
TYPE '3A'	-	GRANULAR 'A' FILL *GRANULAR "A" - RELLENO*
TYPE '3C'	-	GRANULAR 'C' FILL *GRANULAR "C" - RELLENO*



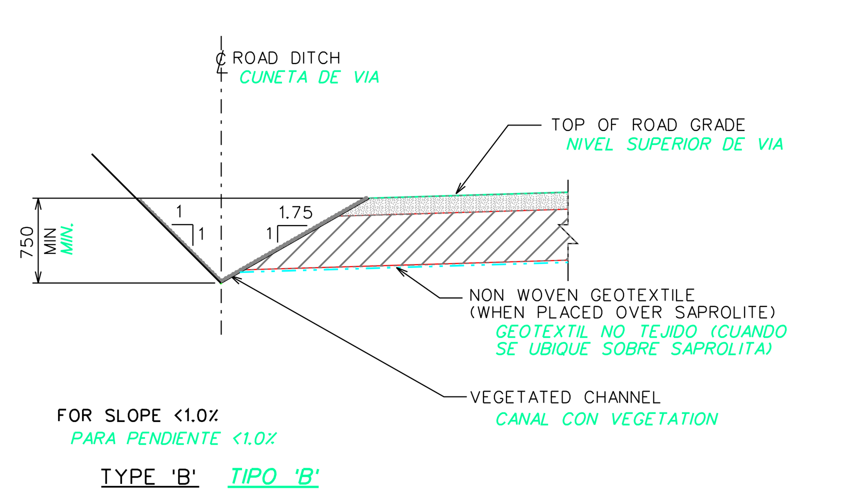
ROAD CUT/FILL SECTION
SECCION CORTE Y RELLENO EN VIA

ROCK EXCAVATION SECTION - SEE TABLE-Ⓐ
SECCION EXCAVACION EN ROCA - VER TABLA -Ⓐ

TABLE - Ⓐ
TABLA - Ⓐ

EXCAVATION THROUGH ROCK *EXCAVACION EN ROCA*		
CUT DEPTH IN BEDROCK *PROFUNDIDAD DE CORTE EN ROCA*	CUT SLOPE *PENDIENTE DE CORTE*	BENCH *ESCALON*
< 2.0 M	0.75H:1V	5M HIGH; 3M WIDE
2.0 M - 5.0 M	0.50H:1V	5M HIGH; 3M WIDE
< 5.0 M	0.25H:1V	10M HIGH; 3M WIDE

504832-0000-4GCA-0116: MEMORANDUM - GEOTECHNICAL CONSIDERATIONS FOR ACCESS ROADS.
504832-0000-4GCA-0116-0116 : MEMORANDUM - CONSIDERACIONES GEOTECNICAS PARA VIAS DE ACCESO.



FOR SLOPE >1.0%
PARA PENDIENTE >1.0%
TYPE 'A' *TIPO 'A'*

FOR SLOPE <1.0%
PARA PENDIENTE <1.0%
TYPE 'B' *TIPO 'B'*

DETAIL 1
ROAD DITCH IN SAPROLITE
N.T.S.

DETALLE 1
CUNETA DE VIA EN SAPROLITA
NO A ESCALA

RELEASED FOR CONSTRUCTION

0 2000 4000 6000
2000
SCALE IN MILIMETRES
ESCALA EN MILIMETROS

DWG. NO.	REFERENCES
3110-41D1-0003	SITE PREP. AND CIVIL WORKS-COAST ACCESS ROAD PORT TO PLANT-OVERALL LAYOUT-PLAN
0000-41D1-0020	GENERAL - ACCESS ROAD - ROAD CULVERT - TYPICAL SECTIONS AND DETAILS - SHEET 3.
0000-41D1-0019	GENERAL - ACCESS ROAD - ROAD CULVERT - TYPICAL SECTIONS AND DETAILS - SHEET 2.
0000-41D1-0018	GENERAL - ACCESS ROAD - ROAD CULVERT - TYPICAL SECTIONS AND DETAILS - SHEET 1.
0000-41D1-0016	GENERAL - SITE FACILITIES - MISCELLANEOUS TYPICAL SECTIONS AND DETAILS.
0000-41D1-0004	GENERAL - CLEARING AND GRUBBING TYPICAL SECTIONS AND DETAILS

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
02	13/01/28	RELEASED FOR CONSTRUCTION							
01	12/09/27	RELEASED FOR CLIENT REVIEW	MPJ	WP	WP	TP			
00	12/06/18	RELEASED FOR PERMIT	MB	WP	WP	BM	MOV		

	NAME (PRINT)	INIT.	DATE
DESIGNED	J.C. ZAPATA	JCZ	11/01/28
DRAWN	M. BARCO / MPJ	MB	11/02/11
CHECKED	W. PALMER		
APPROVED LEAD ENG.	W. PALMER		
APPROVED ENG MAN.	T. PREISIG		
APPROVED AREA MAN.			
APPROVED AREA LEAD.			
APPROVED ENG. MAN.			
SCALE 1 : 100			

REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE
------- -----------
DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA
PREPARACION DEL SITIO Y TRABAJOS CIVILES
VIA DE ACCESO DE LA COSTA
DEL PUERTO HACIA LA PLANTA
SECCIONES Y DETALLES TIPICOS

Minera Panamá

CLIENT
CLIENT DWG. NO.

JVP Joint Venture Panama Inc.

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PROFESSIONAL ENGINEER | NAME | NO.

TITLE
MINA DE COBRE PANAMA PROJECT
SITE PREPARATIONS AND CIVIL WORKS
COAST ACCESS ROAD
PORT TO PLANT
TYPICAL SECTIONS AND DETAILS

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	3110	41	D1	0022	02

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